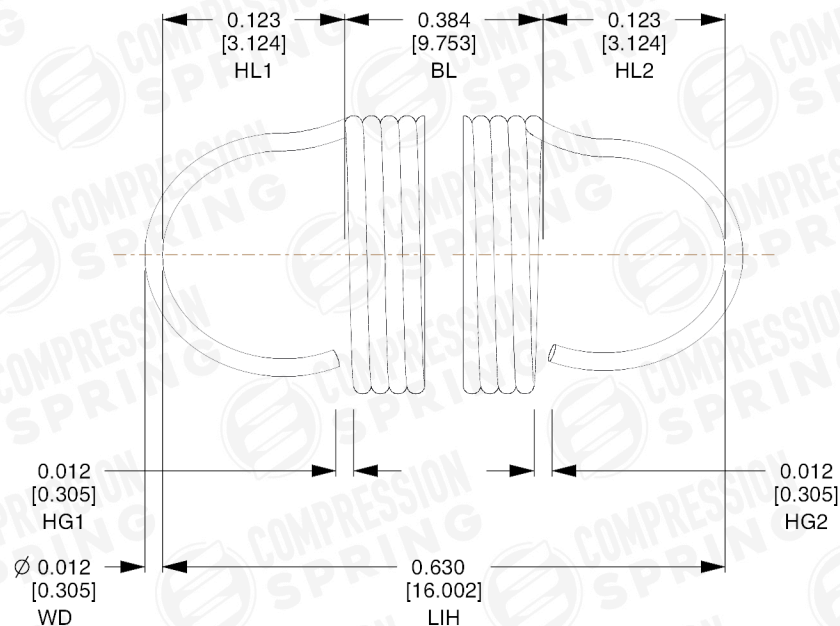
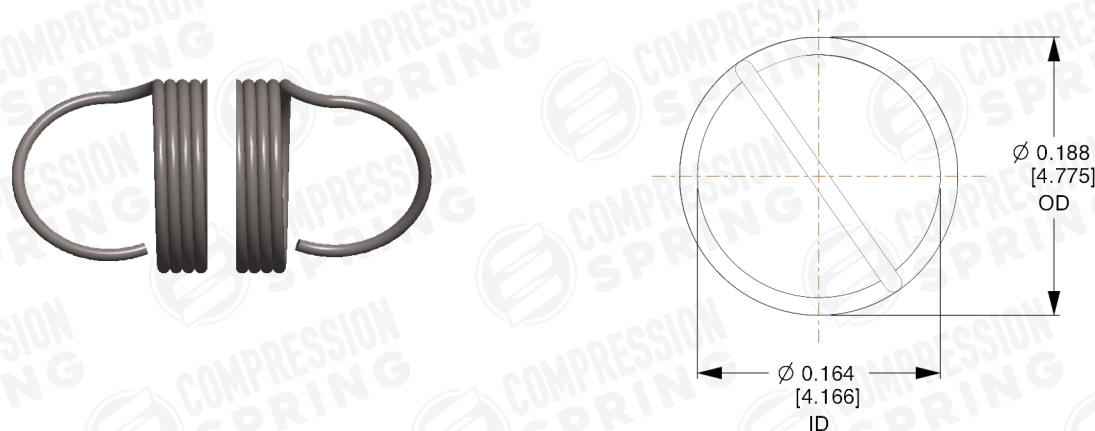


|                                                |                                                                                                                   |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Part Name:                                     | Date: 06/02/2026                                                                                                  |
| Part #: in<br>(Click to see Part # on Website) | PE012-188-31000-MW-0630-MH-N-IN  |
| Spring Type: Extension Spring                  | End Type: Machine Hook                                                                                            |
| Finish: None                                   | Direction of Wind: Right Hand                                                                                     |
| Material: Music Wire ASTM A228                 | Spring Index (I): 14.667                                                                                          |
| Weight / M: 0.575 Lbs                          | Length of W: 17.901 in                                                                                            |

| Physical Dimensions       | IN       | MM          | Tolerances (in) |
|---------------------------|----------|-------------|-----------------|
| Wire Diameter (WD)        | 0.012 in | [0.305 mm]  | +/- 0.001       |
| Outer Diameter (OD)       | 0.188 in | [4.775 mm]  | +/- 0.005       |
| Mean Diameter (MD)        | 0.176 in | [4.470 mm]  | +/- 0.005       |
| Inner Diameter (ID)       | 0.164 in | [4.166 mm]  | +/- 0.005       |
| Length Inside Hooks (LIH) | 0.630 in | [16.002 mm] | +/- 0.025       |
| Body Length (BL)          | 0.384 in | [9.754 mm]  | +/- 0.015       |
| Hook Gap 1 (HG1)          | 0.012 in | [0.305] mm  |                 |
| Hook Gap 2 (HG2)          | 0.012 in | [0.305] mm  |                 |
| Hook Length 1 (HL1)       | 0.123 in | [3.124] mm  |                 |
| Hook Length 2 (HL2)       | 0.123 in | [3.124] mm  |                 |
| Total Hook Length (THL)   | 0.246 in | [6.248] mm  |                 |

|                                   |                  |                    |           |
|-----------------------------------|------------------|--------------------|-----------|
| Spring Rate (K)                   | 0.17627 lbs/in   | 0.031 N/mm         | +/- 0.018 |
| Max Load (ML)                     | 0.509 lbf        | 2.265 N            | +/- 0.051 |
| Max Travel (MT)                   | 2.733 in         | 69.423 mm          |           |
| Initial Tension (IT)              | 0.028 lbf        | 0.123 N            |           |
| Max Shear Stress Possible (t max) | 177190.000 PSI   | 1221682044.747 Pa  |           |
| Material Shear Modulus (G)        | 11492970.929 PSI | 79241245134.131 Pa |           |
| Wahl Correction Factor (W)        | 1.097            | 1.097              |           |



Note: Body Length, Total Coils, End Type and End Position is for reference only.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |             |           |                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes                                                                                                                                                                                                                                                                                                                                                                                                                                           | Scale: 7.713 | Revision #: | Drawn By: | Approved By:                                                                                                                                                                                                                       |
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